Clemente Capasso

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1,363 126 71,124 197 h-index g-index citations papers 8.87 77,848 1,403 5.2 avg, IF L-index ext. citations ext. papers

#	Paper	IF	Citations
1363	Carbonic anhydrases: novel therapeutic applications for inhibitors and activators. <i>Nature Reviews Drug Discovery</i> , 2008 , 7, 168-81	64.1	2297
1362	Interfering with pH regulation in tumours as a therapeutic strategy. <i>Nature Reviews Drug Discovery</i> , 2011 , 10, 767-77	64.1	1146
1361	Carbonic anhydrase inhibitors. <i>Medicinal Research Reviews</i> , 2003 , 23, 146-89	14.4	1062
1360	Multiple binding modes of inhibitors to carbonic anhydrases: how to design specific drugs targeting 15 different isoforms?. <i>Chemical Reviews</i> , 2012 , 112, 4421-68	68.1	889
1359	Targeting tumor hypoxia: suppression of breast tumor growth and metastasis by novel carbonic anhydrase IX inhibitors. <i>Cancer Research</i> , 2011 , 71, 3364-76	10.1	563
1358	Anticancer and antiviral sulfonamides. Current Medicinal Chemistry, 2003, 10, 925-53	4.3	557
1357	Hypoxia activates the capacity of tumor-associated carbonic anhydrase IX to acidify extracellular pH. <i>FEBS Letters</i> , 2004 , 577, 439-45	3.8	556
1356	Carbonic anhydrase inhibitors. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 3467-74	2.9	538
1355	Carbonic anhydrases: current state of the art, therapeutic applications and future prospects. Journal of Enzyme Inhibition and Medicinal Chemistry, 2004 , 19, 199-229	5.6	532
1354	Structure and function of carbonic anhydrases. <i>Biochemical Journal</i> , 2016 , 473, 2023-32	3.8	524
1353	Natural products in drug discovery: advances and opportunities. <i>Nature Reviews Drug Discovery</i> , 2021 , 20, 200-216	64.1	522
1352	How many carbonic anhydrase inhibition mechanisms exist?. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016 , 31, 345-60	5.6	485
1351	Structure-based drug discovery of carbonic anhydrase inhibitors. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2012 , 27, 759-72	5.6	483
1350	Carbonic anhydrases as targets for medicinal chemistry. <i>Bioorganic and Medicinal Chemistry</i> , 2007 , 15, 4336-50	3.4	462
1349	Non-zinc mediated inhibition of carbonic anhydrases: coumarins are a new class of suicide inhibitors. <i>Journal of the American Chemical Society</i> , 2009 , 131, 3057-62	16.4	400
1348	Crystal structure of the catalytic domain of the tumor-associated human carbonic anhydrase IX. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 16233-8	11.5	399
1347	Carbonic anhydrasesan overview. Current Pharmaceutical Design, 2008, 14, 603-14	3.3	397

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1346	Ureido-substituted benzenesulfonamides potently inhibit carbonic anhydrase IX and show antimetastatic activity in a model of breast cancer metastasis. <i>Journal of Medicinal Chemistry</i> , 2011 , 54, 1896-902	8.3	391
1345	Unexpected nanomolar inhibition of carbonic anhydrase by COX-2-selective celecoxib: new pharmacological opportunities due to related binding site recognition. <i>Journal of Medicinal Chemistry</i> , 2004 , 47, 550-7	8.3	381
1344	Recent developments in targeting carbonic anhydrase IX for cancer therapeutics. <i>Oncotarget</i> , 2012 , 3, 84-97	3.3	325
1343	Targeting tumor-associated carbonic anhydrase IX in cancer therapy. <i>Trends in Pharmacological Sciences</i> , 2006 , 27, 566-73	13.2	321
1342	Protease inhibitors of the sulfonamide type: anticancer, antiinflammatory, and antiviral agents. <i>Medicinal Research Reviews</i> , 2003 , 23, 535-58	14.4	320
1341	Deciphering the mechanism of carbonic anhydrase inhibition with coumarins and thiocoumarins. <i>Journal of Medicinal Chemistry</i> , 2010 , 53, 335-44	8.3	311
1340	Advances in structure-based drug discovery of carbonic anhydrase inhibitors. <i>Expert Opinion on Drug Discovery</i> , 2017 , 12, 61-88	6.2	298
1339	An overview of the alpha-, beta- and gamma-carbonic anhydrases from Bacteria: can bacterial carbonic anhydrases shed new light on evolution of bacteria?. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2015 , 30, 325-32	5.6	279
1338	Discovery of a new family of carbonic anhydrases in the malaria pathogen Plasmodium falciparumthe Ecarbonic anhydrases. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014 , 24, 4389-4396	2.9	258
1337	Carbonic anhydrase inhibitors. Synthesis of water-soluble, topically effective, intraocular pressure-lowering aromatic/heterocyclic sulfonamides containing cationic or anionic moieties: is the tail more important than the ring?. <i>Journal of Medicinal Chemistry</i> , 1999 , 42, 2641-50	8.3	250
1336	Carbonic anhydrase activators: X-ray crystallographic and spectroscopic investigations for the interaction of isozymes I and II with histamine. <i>Biochemistry</i> , 1997 , 36, 10384-92	3.2	246
1335	Carbonic anhydrase inhibitors and activators for novel therapeutic applications. <i>Future Medicinal Chemistry</i> , 2011 , 3, 1165-80	4.1	240
1334	Carbonic anhydrase inhibitors: E7070, a sulfonamide anticancer agent, potently inhibits cytosolic isozymes I and II, and transmembrane, tumor-associated isozyme IX. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004 , 14, 217-23	2.9	235
1333	Antiglaucoma carbonic anhydrase inhibitors: a patent review. <i>Expert Opinion on Therapeutic Patents</i> , 2013 , 23, 705-16	6.8	232
1332	Applications of carbonic anhydrase inhibitors and activators in therapy. <i>Expert Opinion on Therapeutic Patents</i> , 2002 , 12, 217-242	6.8	228
1331	Biochemical characterization of CA IX, one of the most active carbonic anhydrase isozymes. <i>Journal of Biological Chemistry</i> , 2008 , 283, 27799-27809	5.4	224
1330	Diuretics with carbonic anhydrase inhibitory action: a patent and literature review (2005 - 2013). Expert Opinion on Therapeutic Patents, 2013 , 23, 681-91	6.8	218
1329	The role of carbonic anhydrase 9 in regulating extracellular and intracellular ph in three-dimensional tumor cell growths. <i>Journal of Biological Chemistry</i> , 2009 , 284, 20299-310	5.4	218

1328	Exploiting the hydrophobic and hydrophilic binding sites for designing carbonic anhydrase inhibitors. <i>Expert Opinion on Drug Discovery</i> , 2013 , 8, 793-810	6.2	215
1327	Antiobesity carbonic anhydrase inhibitors: a literature and patent review. <i>Expert Opinion on Therapeutic Patents</i> , 2013 , 23, 725-35	6.8	213
1326	Sulfa and trimethoprim-like drugs - antimetabolites acting as carbonic anhydrase, dihydropteroate synthase and dihydrofolate reductase inhibitors. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2014 , 29, 379-87	5.6	212
1325	A small-molecule drug conjugate for the treatment of carbonic anhydrase IX expressing tumors. Angewandte Chemie - International Edition, 2014, 53, 4231-5	16.4	210
1324	Carbonic anhydrase inhibitors: SAR and X-ray crystallographic study for the interaction of sugar sulfamates/sulfamides with isozymes I, II and IV. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2003 , 13, 841-5	2.9	209
1323	Anticancer carbonic anhydrase inhibitors: a patent review (2008 - 2013). <i>Expert Opinion on Therapeutic Patents</i> , 2013 , 23, 737-49	6.8	208
1322	Glycosyl coumarin carbonic anhydrase IX and XII inhibitors strongly attenuate the growth of primary breast tumors. <i>Journal of Medicinal Chemistry</i> , 2011 , 54, 8271-7	8.3	201
1321	Bacterial carbonic anhydrases as drug targets: toward novel antibiotics?. <i>Frontiers in Pharmacology</i> , 2011 , 2, 34	5.6	201
1320	Carbonic anhydrase inhibitors. Inhibition of the transmembrane isozyme XII with sulfonamides-a new target for the design of antitumor and antiglaucoma drugs?. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005 , 15, 963-9	2.9	199
1319	Highly active antiretroviral therapy: current state of the art, new agents and their pharmacological interactions useful for improving therapeutic outcome. <i>Current Pharmaceutical Design</i> , 2005 , 11, 1805-	43 ^{.3}	199
1318	Dithiocarbamates strongly inhibit carbonic anhydrases and show antiglaucoma action in vivo. Journal of Medicinal Chemistry, 2012 , 55, 1721-30	8.3	195
1317	Carbonic anhydrase inhibitors. Inhibition of human erythrocyte isozymes I and II with a series of antioxidant phenols. <i>Bioorganic and Medicinal Chemistry</i> , 2009 , 17, 3207-11	3.4	194
1316	Diuretics: from classical carbonic anhydrase inhibitors to novel applications of the sulfonamides. <i>Current Pharmaceutical Design</i> , 2008 , 14, 641-8	3.3	194
1315	Anti-infective carbonic anhydrase inhibitors: a patent and literature review. <i>Expert Opinion on Therapeutic Patents</i> , 2013 , 23, 693-704	6.8	192
1314	Carbonic anhydrase in the scleractinian coral Stylophora pistillata: characterization, localization, and role in biomineralization. <i>Journal of Biological Chemistry</i> , 2008 , 283, 25475-25484	5.4	192
1313	Carbonic anhydrase inhibitors. Design of fluorescent sulfonamides as probes of tumor-associated carbonic anhydrase IX that inhibit isozyme IX-mediated acidification of hypoxic tumors. <i>Journal of Medicinal Chemistry</i> , 2005 , 48, 4834-41	8.3	192
1312	Carbonic anhydrase inhibitors. Inhibition of mammalian isoforms I-XIV with a series of natural product polyphenols and phenolic acids. <i>Bioorganic and Medicinal Chemistry</i> , 2010 , 18, 2159-2164	3.4	190
1311	Characterization of CA XIII, a novel member of the carbonic anhydrase isozyme family. <i>Journal of Biological Chemistry</i> , 2004 , 279, 2719-27	5.4	187

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1310	Carbonic anhydrase inhibitors: X-ray and molecular modeling study for the interaction of a fluorescent antitumor sulfonamide with isozyme II and IX. <i>Journal of the American Chemical Society</i> , 2006 , 128, 8329-35	16.4	186
1309	Polyamines inhibit carbonic anhydrases by anchoring to the zinc-coordinated water molecule. Journal of Medicinal Chemistry, 2010 , 53, 5511-22	8.3	184
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1307	The Warburg Effect and the Hallmarks of Cancer. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2017 , 17, 164-170	2.2	179
1306	Carbonic anhydrase inhibitors as anticonvulsant agents. <i>Current Topics in Medicinal Chemistry</i> , 2007 , 7, 855-64	3	178
1305	Structure and inhibition of the CO2-sensing carbonic anhydrase Can2 from the pathogenic fungus Cryptococcus neoformans. <i>Journal of Molecular Biology</i> , 2009 , 385, 1207-20	6.5	176
1304	The alpha and beta classes carbonic anhydrases from Helicobacter pylori as novel drug targets. <i>Current Pharmaceutical Design</i> , 2008 , 14, 622-30	3.3	175
1303	Sulfocoumarins (1,2-benzoxathiine-2,2-dioxides): a class of potent and isoform-selective inhibitors of tumor-associated carbonic anhydrases. <i>Journal of Medicinal Chemistry</i> , 2013 , 56, 293-300	8.3	174
1302	(In)organic anions as carbonic anhydrase inhibitors. <i>Journal of Inorganic Biochemistry</i> , 2012 , 111, 117-29	4.2	173
1301	Imaging of CA IX with fluorescent labelled sulfonamides distinguishes hypoxic and (re)-oxygenated cells in a xenograft tumour model. <i>Radiotherapy and Oncology</i> , 2009 , 92, 423-8	5.3	173
1300	Tumor-associated carbonic anhydrase 9 spatially coordinates intracellular pH in three-dimensional multicellular growths. <i>Journal of Biological Chemistry</i> , 2008 , 283, 20473-83	5.4	172
1299	Carbonic anhydrases as drug targetsan overview. Current Topics in Medicinal Chemistry, 2007, 7, 825-33	33	171
1298	Carbonic anhydrase inhibitors: interactions of phenols with the 12 catalytically active mammalian isoforms (CA I-XIV). <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008 , 18, 1583-7	2.9	170
1297	Carbonic anhydrase inhibitors: inhibition of isozymes I, II, and IX with triazole-linked O-glycosides of benzene sulfonamides. <i>Journal of Medicinal Chemistry</i> , 2007 , 50, 1651-7	8.3	169
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1295	Sulfonamides: a patent review (2008 - 2012). Expert Opinion on Therapeutic Patents, 2012, 22, 747-58	6.8	167
1294	Carbonic anhydrase inhibitors. Zonisamide is an effective inhibitor of the cytosolic isozyme II and mitochondrial isozyme V: solution and X-ray crystallographic studies. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005 , 15, 2315-20	2.9	166
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1292	Carbonic anhydrase inhibitors. The mitochondrial isozyme VB as a new target for sulfonamide and sulfamate inhibitors. <i>Journal of Medicinal Chemistry</i> , 2005 , 48, 7860-6	8.3	161
1291	Inhibition of carbonic anhydrase IX targets primary tumors, metastases, and cancer stem cells: Three for the price of one. <i>Medicinal Research Reviews</i> , 2018 , 38, 1799-1836	14.4	159
1290	In vitro inhibition of <code>\parabonic</code> anhydrase isozymes by some phenolic compounds. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011 , 21, 4259-62	2.9	158
1289	In Vitro inhibition of human carbonic anhydrase I and II isozymes with natural phenolic compounds. <i>Chemical Biology and Drug Design</i> , 2011 , 77, 494-9	2.9	154
1288	Bacterial, fungal and protozoan carbonic anhydrases as drug targets. <i>Expert Opinion on Therapeutic Targets</i> , 2015 , 19, 1689-704	6.4	153
1287	Taking advantage of tumor cell adaptations to hypoxia for developing new tumor markers and treatment strategies. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2009 , 24 Suppl 1, 1-39	5.6	153
1286	Therapeutic potential of sulfamides as enzyme inhibitors. <i>Medicinal Research Reviews</i> , 2006 , 26, 767-92	14.4	153
1285	A novel class of carbonic anhydrase inhibitors: glycoconjugate benzene sulfonamides prepared by "click-tailing". <i>Journal of Medicinal Chemistry</i> , 2006 , 49, 6539-48	8.3	153
1284	Carbonic Anhydrase Inhibition and the Management of Hypoxic Tumors. <i>Metabolites</i> , 2017 , 7,	5.6	151
1283	Carbonic anhydrase IX: Biochemical and crystallographic characterization of a novel antitumor target. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2010 , 1804, 404-9	4	151
1282	Carbonic anhydrase inhibitors: stacking with Phe131 determines active site binding region of inhibitors as exemplified by the X-ray crystal structure of a membrane-impermeant antitumor sulfonamide complexed with isozyme II. <i>Journal of Medicinal Chemistry</i> , 2005 , 48, 5721-7	8.3	150
1281	Dithiocarbamates: a new class of carbonic anhydrase inhibitors. Crystallographic and kinetic investigations. <i>Chemical Communications</i> , 2012 , 48, 1868-70	5.8	149
1280	Modulation of carbonic anhydrase activity and its applications in therapy. <i>Expert Opinion on Therapeutic Patents</i> , 2004 , 14, 667-702	6.8	148
1279	Carbonic anhydrase inhibitors: synthesis of water-soluble, topically effective intraocular pressure lowering aromatic/heterocyclic sulfonamides containing 8-quinoline-sulfonyl moieties: is the tail more important than the ring?. <i>Bioorganic and Medicinal Chemistry</i> , 1999 , 7, 2397-406	3.4	148
1278	Carbonic anhydrase inhibitors: the beta-carbonic anhydrase from Helicobacter pylori is a new target for sulfonamide and sulfamate inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007 , 17, 3585-94	2.9	146
1277	Indisulam: an anticancer sulfonamide in clinical development. <i>Expert Opinion on Investigational Drugs</i> , 2003 , 12, 283-7	5.9	146
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1275	Saccharin inhibits carbonic anhydrases: possible explanation for its unpleasant metallic aftertaste. Anaewandte Chemie - International Edition. 2007. 46, 7697-9	16.4	145

1274	Carbonic anhydrase inhibitors. Design of selective, membrane-impermeant inhibitors targeting the human tumor-associated isozyme IX. <i>Journal of Medicinal Chemistry</i> , 2004 , 47, 2337-47	8.3	145	
1273	Specific inhibition of carbonic anhydrase IX activity enhances the in vivo therapeutic effect of tumor irradiation. <i>Radiotherapy and Oncology</i> , 2011 , 99, 424-31	5.3	144	
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1271	7,8-disubstituted- but not 6,7-disubstituted coumarins selectively inhibit the transmembrane, tumor-associated carbonic anhydrase isoforms IX and XII over the cytosolic ones I and II in the low nanomolar/subnanomolar range. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010 , 20, 7255-8	2.9	143	
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1269	New strategies for targeting the hypoxic tumour microenvironment in breast cancer. <i>Cancer Treatment Reviews</i> , 2013 , 39, 171-9	14.4	142	
1268	In vitro inhibition of salicylic acid derivatives on human cytosolic carbonic anhydrase isozymes I and II. <i>Bioorganic and Medicinal Chemistry</i> , 2008 , 16, 9101-5	3.4	142	
1267	Carbonic anhydrase inhibitors: clash with Ala65 as a means for designing inhibitors with low affinity for the ubiquitous isozyme II, exemplified by the crystal structure of the topiramate sulfamide analogue. <i>Journal of Medicinal Chemistry</i> , 2006 , 49, 7024-31	8.3	142	
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1265	Carbonic anhydrase inhibitors: the first selective, membrane-impermeant inhibitors targeting the tumor-associated isozyme IX. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004 , 14, 869-73	2.9	140	
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1262	Carbonic anhydrase inhibitors as emerging agents for the treatment and imaging of hypoxic tumors. <i>Expert Opinion on Investigational Drugs</i> , 2018 , 27, 963-970	5.9	139	
1261	A new approach to antiglaucoma drugs: carbonic anhydrase inhibitors with or without NO donating moieties. Mechanism of action and preliminary pharmacology. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2012 , 27, 138-47	5.6	138	
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1259	Carbonic anhydrases in anthozoan corals-A review. <i>Bioorganic and Medicinal Chemistry</i> , 2013 , 21, 1437-	503.4	137	
1258	Are carbonic anhydrase inhibitors suitable for obtaining antiobesity drugs?. <i>Current Pharmaceutical Design</i> , 2008 , 14, 655-60	3.3	137	
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1254	The Etlass carbonic anhydrases as drug targets for antimalarial agents. <i>Expert Opinion on Therapeutic Targets</i> , 2015 , 19, 551-63	6.4	135
1253	Carbonic anhydrase inhibitors. Antioxidant polyphenols effectively inhibit mammalian isoforms I-XV. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010 , 20, 5050-3	2.9	135
1252	Carbonic anhydrase inhibitors in the treatment and prophylaxis of obesity. <i>Expert Opinion on Therapeutic Patents</i> , 2003 , 13, 1545-1550	6.8	135
1251	Rosmarinic acid inhibits some metabolic enzymes including glutathione S-transferase, lactoperoxidase, acetylcholinesterase, butyrylcholinesterase and carbonic anhydrase isoenzymes. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1698-702	5.6	134
1250	Sulfonamides and their isosters as carbonic anhydrase inhibitors. <i>Future Medicinal Chemistry</i> , 2014 , 6, 1149-65	4.1	133
1249	Carbonic anhydrase inhibitors. Inhibition of tumor-associated isozyme IX by halogenosulfanilamide and halogenophenylaminobenzolamide derivatives. <i>Journal of Medicinal Chemistry</i> , 2003 , 46, 2187-96	8.3	133
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1231	Dithiocarbamates strongly inhibit the Etlass carbonic anhydrases from Mycobacterium tuberculosis. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2013 , 28, 407-11	5.6	118
1230	Coumarins incorporating hydroxy- and chloro-moieties selectively inhibit the transmembrane, tumor-associated carbonic anhydrase isoforms IX and XII over the cytosolic ones I and II. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010 , 20, 4511-4	2.9	118
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	Biomimetic CO2 capture using a highly thermostable bacterial Earbonic anhydrase immobilized on a polyurethane foam. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2014 , 29, 146-50 Carbonic anhydrase activators. Activation of isoforms I, II, IV, VA, VII, and XIV with L- and D-phenylalanine and crystallographic analysis of their adducts with isozyme II: stereospecific recognition within the active site of an enzyme and its consequences for the drug design. <i>Journal of</i>		116
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1227	Biomimetic CO2 capture using a highly thermostable bacterial Earbonic anhydrase immobilized on a polyurethane foam. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2014 , 29, 146-50 Carbonic anhydrase activators. Activation of isoforms I, II, IV, VA, VII, and XIV with L- and D-phenylalanine and crystallographic analysis of their adducts with isozyme II: stereospecific recognition within the active site of an enzyme and its consequences for the drug design. <i>Journal of Medicinal Chemistry</i> , 2006 , 49, 3019-27 COX-2 selective inhibitors, carbonic anhydrase inhibition and anticancer properties of sulfonamides	5.6 8.3	116
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1227 1226 1225	Biomimetic CO2 capture using a highly thermostable bacterial Earbonic anhydrase immobilized on a polyurethane foam. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2014 , 29, 146-50 Carbonic anhydrase activators. Activation of isoforms I, II, IV, VA, VII, and XIV with L- and D-phenylalanine and crystallographic analysis of their adducts with isozyme II: stereospecific recognition within the active site of an enzyme and its consequences for the drug design. <i>Journal of Medicinal Chemistry</i> , 2006 , 49, 3019-27 COX-2 selective inhibitors, carbonic anhydrase inhibition and anticancer properties of sulfonamides belonging to this class of pharmacological agents. <i>Mini-Reviews in Medicinal Chemistry</i> , 2004 , 4, 625-32 Inhibitors of HIV-1 protease: current state of the art 10 years after their introduction. From antiretroviral drugs to antifungal, antibacterial and antitumor agents based on aspartic protease inhibitors. <i>Current Medicinal Chemistry</i> , 2007 , 14, 2734-48 Unsymmetrical 1,1'-disubstituted ferrocenes: synthesis of Co(ii), Cu(ii), Ni(ii) and Zn(ii) chelates of ferrocenyl-1-thiadiazolo-1'-tetrazole,-1-thiadiazolo-1'-triazole and -1-tetrazolo-1'-triazole with	5.6 8.3 3.2 4.3	116 116 115
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